# pushPIN<sup>™</sup> Heat Sink Assembly

# ATS Part#: ATS-P2-176-C1-R0

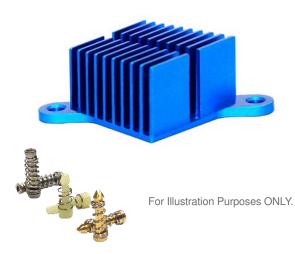
Description: pushPIN™ HS ASMBLY,COARSE-PITCH,STRAIGHT, HOLE PATTERN:RIGHT-TABBED,BLUE,NO TIM

#### Heat Sink Type: pushPIN™ Heat Sink Assembly

Heat Sink Attachment: pushPIN™ / Spring Kit

## **Features & Benefits**

- » Quick Attachment Push pins feature a flexible barb at the end designed to engage with pre-drilled holes in a PCB.
- » Compression Springs add the necessary force to hold the assembly together for secure attachment. Select from over 21 different springs to achieve precise force required.
- » Push Pin Material available in brass or plastic in 10 sizes ranging from 9-20mm in length. Stainless steel hardware kit available for more secure attachment. Visit www.qats.com for available options.
- » Heat Sinks Designed for All Airflow Conditions. Select from over 112 fine pitch HS designed for high velocity air flows and 98 course pitch HS designed for low velocity air flow conditions.
- » Pre-assembled with phase-changing material for increased thermal performance. Double-sided thermal tape and no TIM options available to meet application-specific requirements.
- » Lightweight, aluminum HS extruded from AL6063 provide optimal heat transfer with a blue anodized finish.
- » All components are RoHS and REACH compliant.
- » Industry standard hole pattern. Recommended through hole size is 3mm



# **Bill of Material**

### Qty

Heat Sink:	ATS-CPX035035015-176-C1-R0					
pushPIN™/Spring Kit:		ATS-HK91-R0		1		

Thermal Performance												
Air Velocity	LFM (m/s)	100 (0.5)	200 (1.0)	300 (1.5)	400 (2.0)	500 (2.5)	600 (3.0)	700 (3.5)		Fin Pitch	Fin Type	Hole Pattern
Thermal Resistance	Unducted Flow	8.56	4.82	3.81	3.29	2.95	2.70	2.51		COARSE- PITCH	STRAIGHT	RIGHT- TABBED
°C/W	Ducted Flow	4.40	3.25	2.75	2.44	2.22	2.06	1.93				

# 1.1

Product D	etail							
P/N	Dimensions					Duch Din/Coring Kit		The isla
	А	В	С	E	F	Push Pin/Spring Kit	TIM	Finish
ATS-P2-176-C1-R0	35	35	15	40	40	ATS-HK91-R0	NO TIM	BLUE ANODIZED
	>				<ol> <li>Dimension</li> <li>Dimension field.</li> <li>Dimension</li> <li>Dimension</li> <li>Thermal pr vary by ap</li> <li>ATS resendesign or pr</li> </ol>	A is the length of the heat sink in the di B is the width of the heat sink perpendie C is the heat sink height from the botton E is the distance between holes perpen F is the distance between holes in the c erformance data are provided for referen- plication. We the right to update or change its pro- performance.	cular to the flow dire m of the base to the dicular to the direct direction of flow. Ince only. Actual per ducts without notice	e top of the fin tion of the flow. formance may to improve the

ATS certifies that this heat sink assemby is RoHS-6 and REACH compliant.

9) Contact ATS to learn about custom options available.

For Illustration Purposes ONLY.



For further technical information, please contact Advanced Thermal Solutions, Inc.

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